Statewide Trails Database Project Update

GIS Day 2014

November 19, 2014

Team

Executive Sponsors
- ✦ Darrell Jennings, Recreation and Conservation Office
- ✦ Joy Paulus, Office of the Chief Information Officer (OCIO)
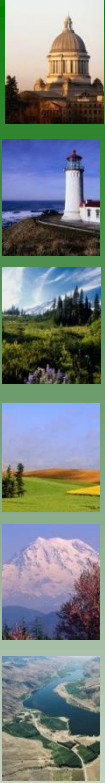
GIS Technical Lead
- ✦ Jenny Konwinski

GIS Data Editors
- ✦ Reid Ammann
- ✦ Michael Hammond

Outreach
- ✦ Katz Kiendl

Overview

✦ Multiple state agencies manage and/or need recreational trails information.

✦ No comprehensive statewide, state-owned recreational trails database exists.

✦ Began as a part-time volunteer/intern effort in January 2014. Officially started in September 2014.

✦ Currently collecting data from various sources and building a standardized geospatial database suitable for both staff and the public to use and update.

Management

✦ Team members are based in various locations around the state.

✦ Communicate primarily through Kerika, a collaborative tool which allows information sharing and progress tracking.

✦ Also hold short weekly telephone or WebEx conferences to review progress and address issues which need detailed discussion.
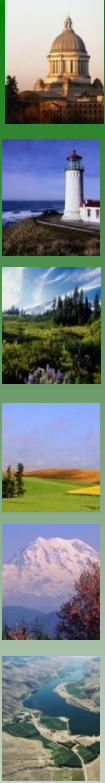
Database Design

✦ Using Esri's ArcGIS Platform.

✦ Native data structure is the geodatabase.

✦ Standards-based FGDC metadata and a data dictionary will be available.

✦ Presently concentrating efforts on named trails which can be associated with local, state, or federal organizations.
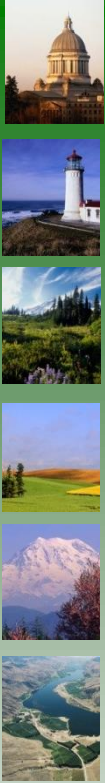
Technical Details

✦ The primary geodatabase is managed in a Microsoft SQL Server Express database and served as feature services from an ArcGIS Server site hosted in Amazon Web Services.
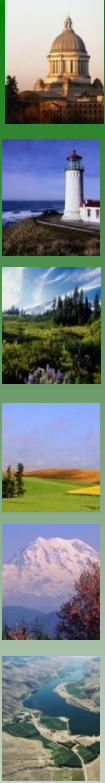
Technical Details Continued

✦ Editors use ArcMap to update feature geometry and attributes in the feature services.

   ✦ Create a local copy of assigned work area features

   ✦ Edit the local copy features
      ✦ Flag features for further review and editing as needed

   ✦ Sync the edited features with the feature service

   ✦ The feature service writes the edits to the geodatabase

Technical Details Continued

✦ After the data has been reviewed and accepted, the workgroup ArcGIS Online project status tracking feature service will be updated.

✦ Other feature services will be made available as well as areas are completed.

MULTI-USE TRAIL

Challenges

✦ Because project resources are limited, flexibility and creativity have been key to overcoming technical issues.

✦ Application administrator assistance – Repurposing and reconfiguring an existing shared ArcGIS Server site

✦ Software licensing and workflow – Sharing licenses and adjusting schedules in order to provide as much editing time as possible for as many people as possible

Next Steps

✦ Software engineers from OCIO will be developing a crowdsourcing application geared toward recreational associations and other parties interested in trails data.

✦ If funding allows, GPS data may be incorporated during future phases of the project.

For More Information…

Examples

✦[Kerika](#)

✦[ArcGIS Online](#)

Statewide Trails Grant Project (Draft), 10/13/14
Uncoded
Management Organization
City of Olympia Parks
Seattle Parks and Recreation
Thurston County Parks
King County Parks
Green River Community College
Local Government
Private Owner
WA Dept of Natural Resources
WA State Parks
WA Dept of Fish & Wildlife
US Bureau of Land Management
US Fish & Wildlife Service
US Forest Service
US National Park Service
Multiple
Unknown

Thank You!

★ Questions?